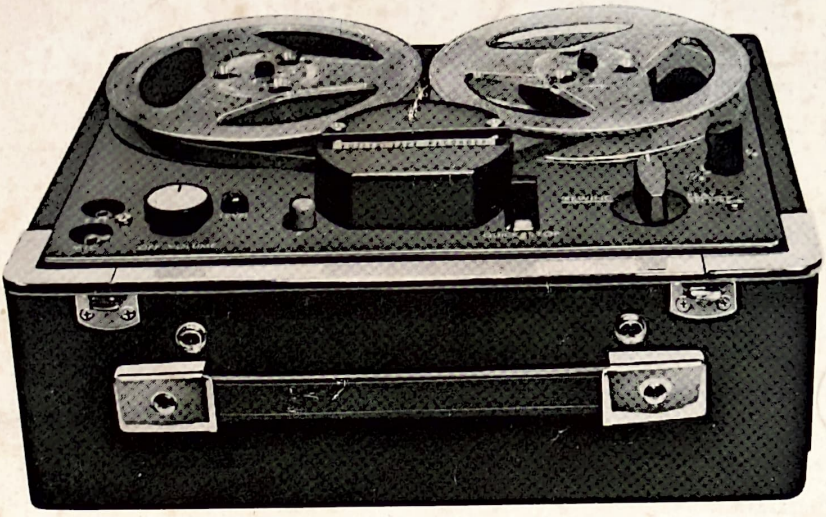
Fujiya FD



TAPE RECORDER

MODEL

FL-555

(2 SPEEDS)

FUJIYA ELECTRIC CO., LTD.
TOKYO · JAPAN

OPERATING INSTRUCTIONS

POWER SUPPLY

Power Supply Cord is kept in the Storage Compartment⑭. Before plugging it in make absolutely certain that your house supply is 110-117 volts 60 cycles AC. This recorder is designed to operate only on this voltage, AND SEVERE DAMAGE WILL RESULT IF CONNECTION IS MADE TO HIGHER VOLTAGES OR TO A DIRECT CURRENT (DC) LINE. If in doubt, consult your dealer.

NOTE: In case of your house supply being 110-117 volts 50 cycles AC, remove the Head Cover⑨, and cover 60 cycles capstan with 50 cycles capstan which is provided as an accessory.

SWITCHING ON THE RECORDER

To switch on, turn the Volume Control Knob① a few degrees clockwise until it clicks and allow about 30 seconds for the recorder to warm up.

THREADING THE TAPE

1. Selector Control Knob ② should be switched to "STOP" position.
2. Place a full reel of tape on the Supply Reel Cup ⑥, making certain reel slots catch the protrusions of the spindle. Unwind about 15 inches of tape from the supply reel.
3. Insert free section of tape into the Tape Slot⑧.
4. Insert free end of tape into one of the three slots in the hub of the right (take-up) reel and while holding the tape in place give the reel two or three turns until the tape is secured.
5. Make sure that the dull side of the tape should always face away from the operator (rear of unit) and that the tape is not twisted.

TO MAKE RECORDINGS

1. Insert the microphone plug into the Microphone Input Jack④.
2. Select the speed at which it is desired to record by turning the Speed Change Knob⑫. Remember, $3\frac{3}{4}$ inches per second (slow speed) for voice and $7\frac{1}{2}$ inches per second (fast speed) for music.
   CAUTION: Turning the Speed Change Knob while the recorder is operating will not change the speed. The Selector Control Knob ② must be "STOP" position before the speed can be changed.
3. Move the Record Lock Button③ downward with the left hand. This releases the safety lock which prevents accidental erasure.
4. Set the Selector Control knob ② to "RECORD" position with the right hand (while holding the Record Lock Button③ with the left hand) until it latches.
5. Speak steadily into the microphone for a few seconds while you turn the Volume Control Knob① clockwise until the Level Indicator ⑤ just flashes on the loudest peak of sound. This gives the correct setting for the Volume Control Knob①. Then every sound picked up by the microphone will be recorded at a proper level.
   CAUTION: Do not place the microphone near the recorder, as background noises will be recorded. And do not give the microphone any shock or vibration, or they will be recorded as noise too. It is best to have the microphone as far away as possible from the recorder.

TO STOP THE RECORDER

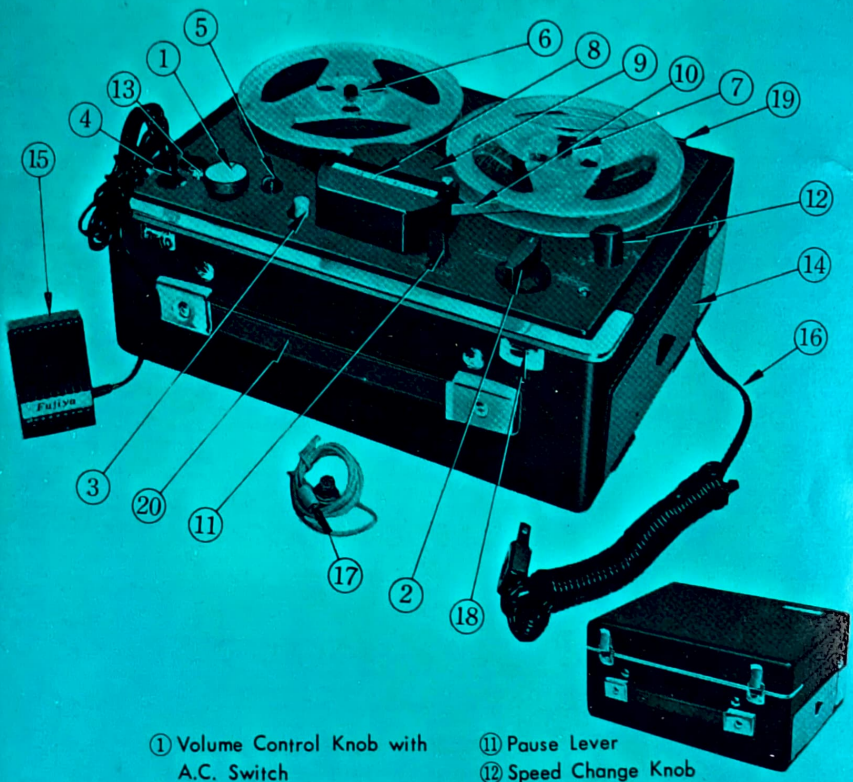
To stop the recorder anytime during operation merely return the Selector Control Knob ② to "STOP" position. When the control knob is turned to "STOP" position when a recording is being made the Record Lock Button ③ will move up. Therefore, to continue with a recording, this button must be depressed when the control is turned again.

To stop the tape motion temporarily during recording or reproducing, pull the Pause Lever⑪ toward the operator.

TO PLAY BACK RECORDINGS

1. Switch on the recorder with the Volume Control Knob①.
2. Thread tape as described under "Threading The Tape".
3. Set the Speed Change Knob⑫ to the speed at which the recording was made.

MODEL FL-555
(2SPEEDS)



① Volume Control Knob with A.C. Switch
② Selector Control Knob
③ Record Lock Button
④ Microphone Input Jack
⑤ Level Indicator
⑥ Supply Reel Cup
⑦ Take-up Reel Cup
⑧ Tape Slot
⑨ Head Cover
⑩ Tape
⑪ Pause Lever
⑫ Speed Change Knob
⑬ Earphone or External Speaker Jack
⑭ Storage Compartment
⑮ Crystal Microphone
⑯ Power Supply Cord
⑰ Magnetic Earphone
⑱ Latch
⑲ Hinge
⑳ Carrying Handle

4. Turn the Selelector Control Knob②to "PLAY" position.
   CAUTION: Do not depress the Record Lock Button③or the recording will be erased instead of being reproduced.
   Always be sure that the tape is smooth and tight between the reels and the heads before turning the Selector Control Knob②. If it is loose, the tape may tangle under the reel and be snapped.
5. Adjust volume with the Volume Control Knob ① to desired listening level.
6. In order to listen in to a tape which was just recorded, turn the Selector Control Knob②counter-clockwise from "STOP" position to "REVERSE" position. If the tape is rewound on the left reel until where the recording started, stop the tape and then follow the above operations 4 and 5.
   NOTE: When it is desirable to play a certain portion of the tape over again it is not necessary to rewind the entire tape. By turning the Selector Control Knob②to "REVERSE" position the tape will reverse at a rapid speed. Several minutes of normal recording can be skipped in a few seconds by the "REVERSE" operation.

DUAL-TRACK RECORDING SYSTEM

To obtain longer recording time, this recorder uses the dual-track recording system. So a recording is made on the upper half section of tape. When take-up reel is full, stop the recorder with the Selector Control Knob②. Remove the left reel which is now empty and interchange it with the right reel containing tape.
Thread the tape in exactly the same way as described under "Threading The Tape". Then recording is made on other half track of tape.

ERASING RECORDED MATERIAL

When the Record Lock Button ③ is depressed, the erase head automatically becomes operative, erasing any previous recording before a new one is made. You may erase material no longer needed, without recording, by running tape through the erase head with the Selector Control Knob ② set for "RECORD" position but with the Volume Control Knob ① turned to the minimum volume position or extreme counter-clockwise position just before the recorder shuts off. Only one track is erased at a time, so at the end of tape, if it is recorded on both tracks, reverse the reels as described under "Dual-Track Recording System" and repeat the above operation.

TO EDIT AND SPLICE TAPE

NOTE: Since it is impossible to edit and splice one track without affecting the other, recordings which are to be edited should be limited to one track only.

1. The tape may be edited by cutting out unwanted portions, or by joining selections into another sequence. Announcements may be inserted between selections, etc. Unused sections of tape can be spliced together for re-use.
2. For best results, cut tape at a slight diagonal, join ends together with splicing tape on the glossy side and trim off any excessive width.

REPRODUCTION FROM EARPHONE

Plug the earphone into the Earphone Jack ⑬. In this case, the built-in speaker becomes inoperative automatically.

REPRODUCTION FROM EXTERNAL SPEAKER

Plug a patch cord into the External Speaker Jack ⑬ and connect the alligator clips of the cord across the voice-coil terminals of the external speaker.
See if the dynamic speaker is eqipped with the output transformer. If so, disconnect it. In this case, the built-in speaker becomes inoperative automatically.

LUBRICATION

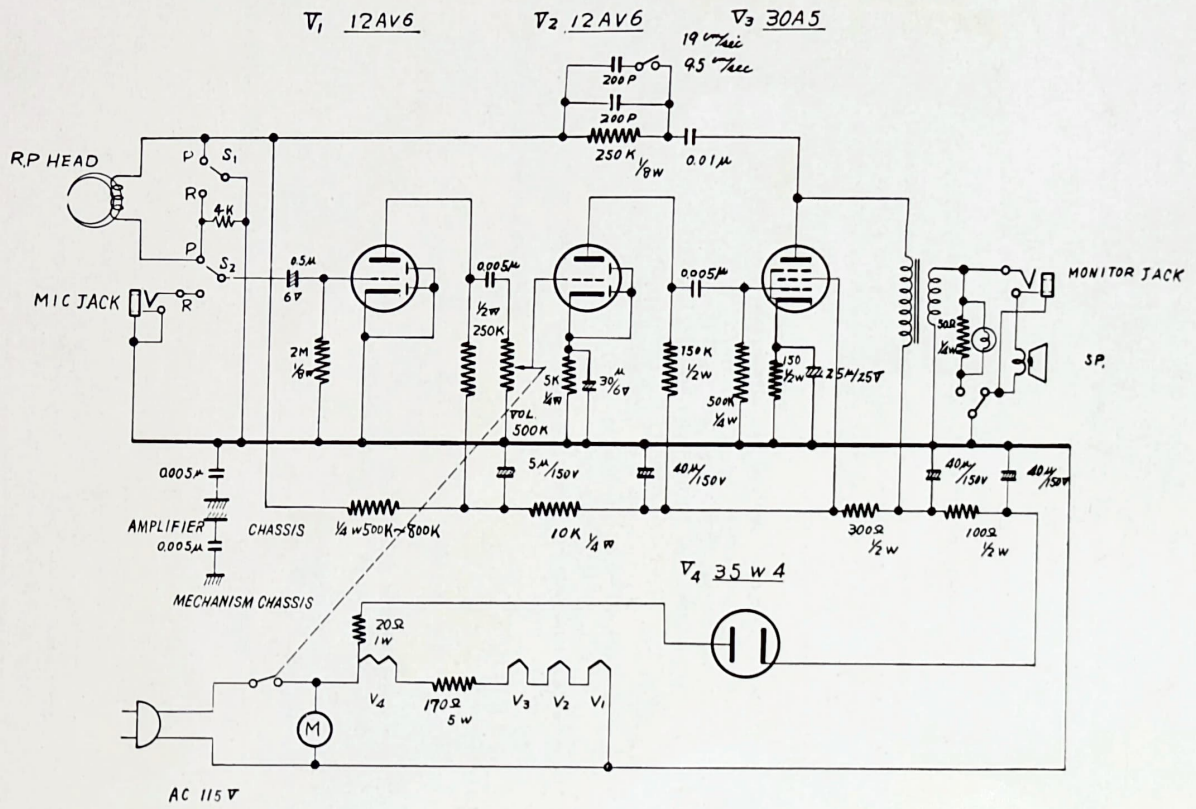
All moving parts of this recorder are provided with self-lubricating oilite bearings. Additional lubrication should not be required except in case of extreme use or replacement of parts. When lubricating, wipe bearing areas with light wax free oil (instrument oil).

CAUTION: Any excess oil may seep to the outer edges of moving parts and cause slippage in the drive mechanism. Should this occur, wipe off all parts thus affected with a soft cloth and Carbon Tetrachloride.

CLEANING

The majority of defects, other than wear or breakage, can be traced to dirty surfaces. The recording head, erase head, tape guide, capstan, and pressure roller are subject to an accumulation of tape coating residue, which is worn off the tape as it passes these parts. This accumulation should be periodically removed since it may cause faint recordings and poor playback. Wipe off the above surfaces carefully with a clean cloth. If dirt is caked or hard and will not come off with a dry cloth, dampen cloth slightly with Carbon Tetrachloride.

SCHEMATIC DIAGRAM



● SPECIFICATIONS

- Power Rating: 60 cycles, 110-117 Volts A. C.
- Tape Speeds: 7½ ips and 3¾ ips
- Recording time:
  30 minutes (7½ips) for use 600 ft. tape
  60 minutes (3¾ips) for use 600 ft. tape
- Reel Size: 5″ Maximum
- Speaker: 3″Dynamic speaker with permanent magnet—voice coil impedance 8 ohm
- Amplifier: 4 tubes
- Tubes: 12AV6×2 1st & 2nd stage AF amplifier
  30A5 Output
  35W4 Rectifier
- Frequency Range: 200～8000 cps at 7½ ips
  200～6000 cps at 3¾ ips
- Output Power: 1 W
- Earphone Jack: For magnetic earphone or external speaker
- Microphone: Crystal microphone
- Dimensions: 11 1/16″×8 3/8″×5 3/16″
  (282 mm×212 mm×131 mm)
- Weight: 11 lbs. (5 kgs)
- Accessories: 1 pc. Crystal Microphone
  1 pc. 5″ Empty Reel
  1 pc. Magnetic Earphone
  1 pc. 50 cycles Capstan

Fujiya FD

PRINTED IN JAPAN